

ABSTRACT

An embodiment of a read mechanism used in a contact atomic resolution storage system, has a cantilever disposed with a medium which is movable relative to the cantilever. The cantilever has a probe which extends from the cantilever and which contacts a surface of the medium. A pod is formed on a side of the cantilever facing the medium and extends toward the media. A sensor element is formed on the pod so as to juxtapose the medium.